

SYNCHRONIZATION DETECTION APPARATUS AND RECEIVING

APPARATUS AND METHODS OF THE SAME

ABSTRACT OF THE DISCLOSURE

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A synchronization detection apparatus able to quickly detect synchronization words (synchronization patterns) arranged at predetermined bit intervals in a signal, provided with a synchronization word detector for identifying data having the same number of bits as the synchronization pattern in order while shifting positions of data in the signal in units of bits and comparing the identified data with a predetermined synchronization pattern stored beforehand; a consecutive synchronization word detection counter for establishing synchronization using the identified data as the synchronization pattern when all of the comparison results of a predetermined number of data identified and arranged consecutively at predetermined bit intervals are in agreement; a delay unit; and a synchronization processing state judging unit.